iRobot Roomba 551 Bumper Sensor Replacement

This guide will provide steps needed to replace the bumper sensor on the iRobot Roomba 551.

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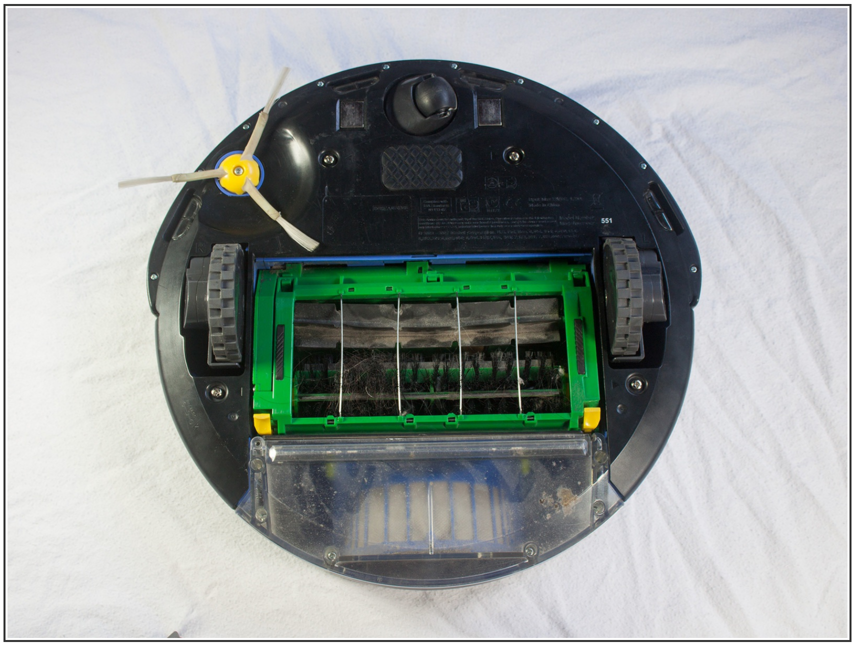
INTRODUCTION

Is your Roomba banging its head against the wall? Follow this guide to replace the bumper sensor.

TOOLS:

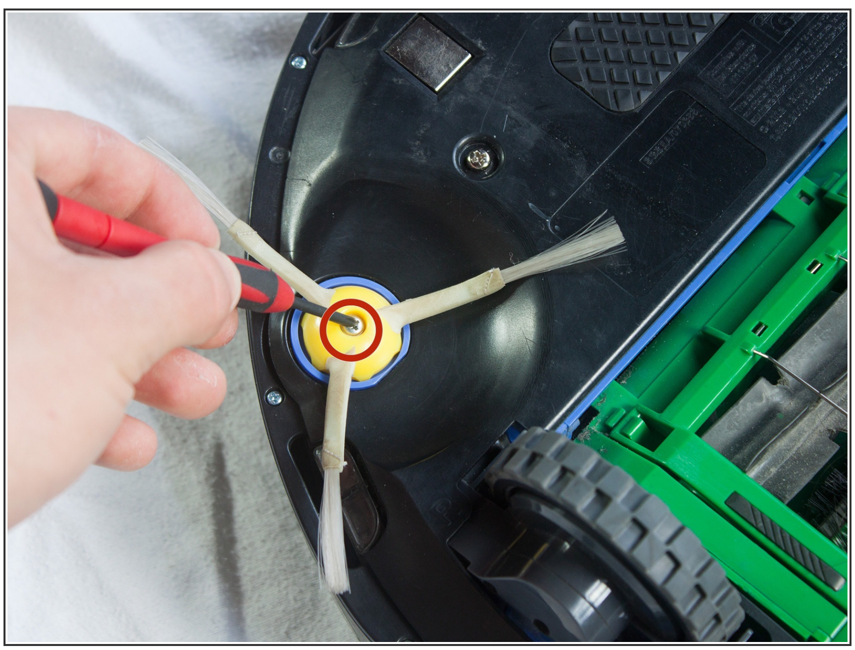
- Phillips #1 Screwdriver (1)
- Phillips #2 Screwdriver (1)

Step 1 — Side Brush



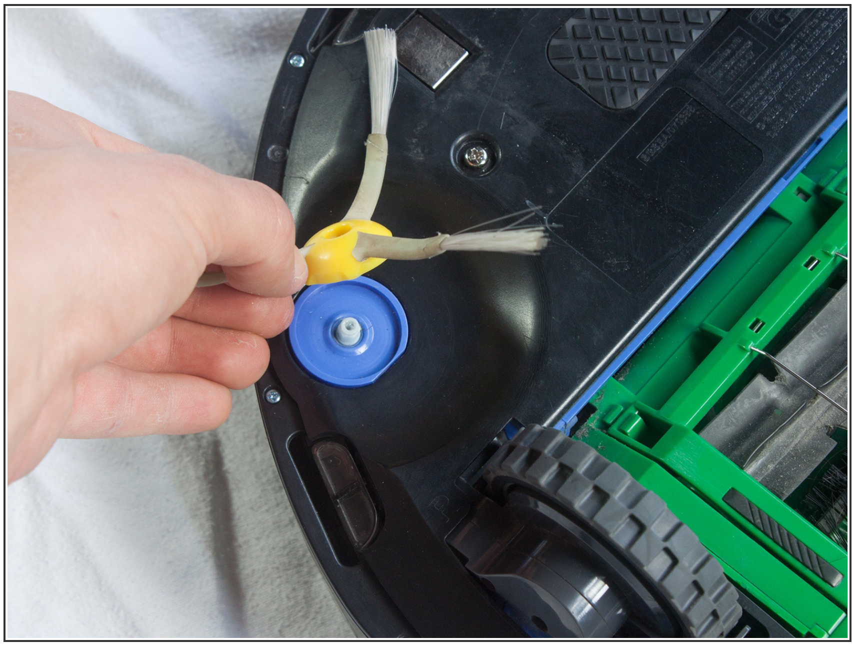
- Place your Roomba upside-down on a hard surface.

Step 2



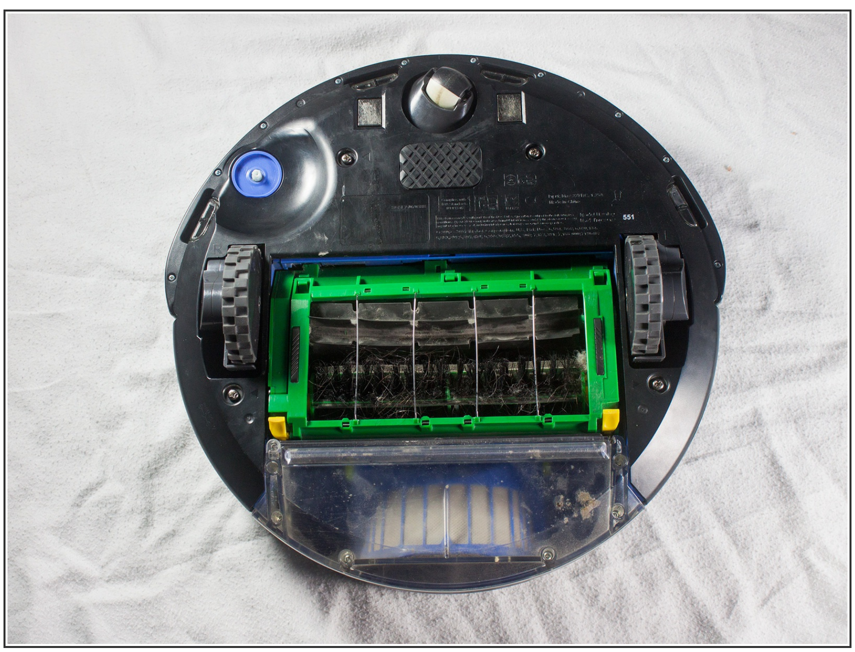
- While holding the side brush in place, use a Phillips #1 screwdriver to remove the 4.5mm screw from the center of the brush.

Step 3



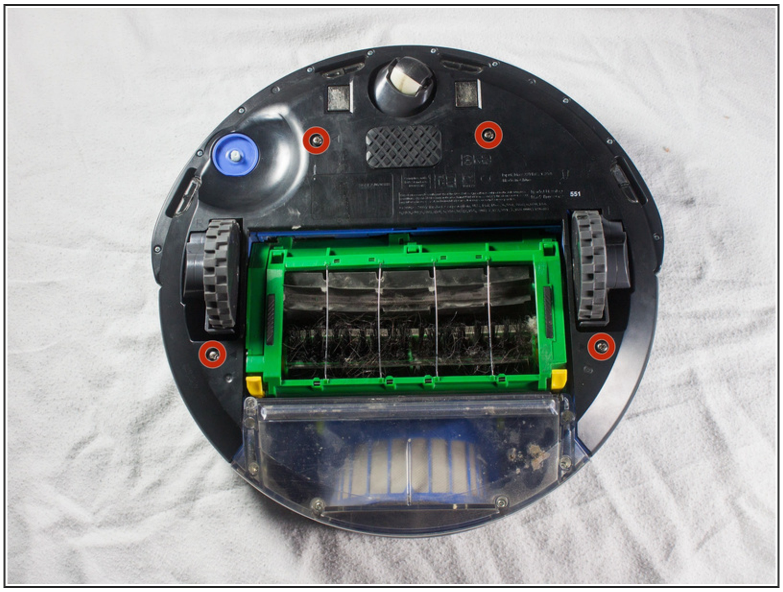
- Gently pull upwards on the brush to remove it.

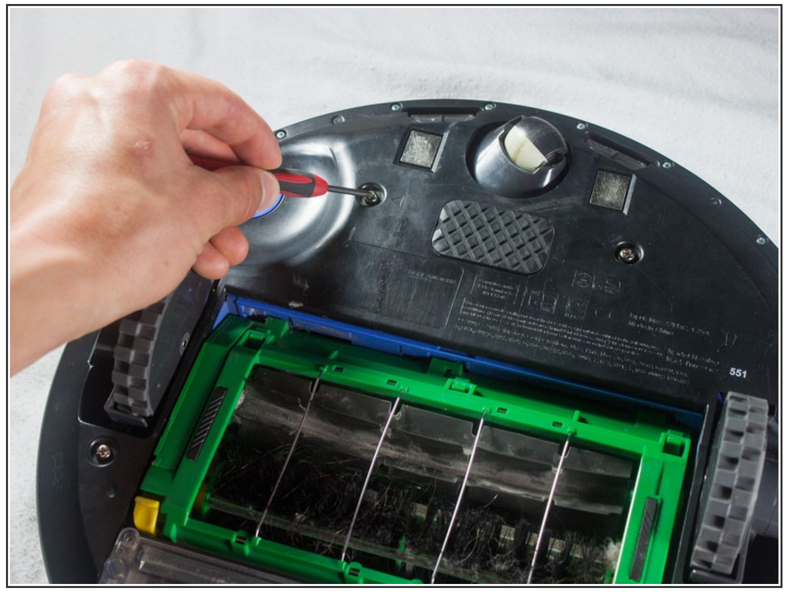
Step 4 — Bottom Plate



- Rotate the Roomba upside-down so the bottom is facing towards you.

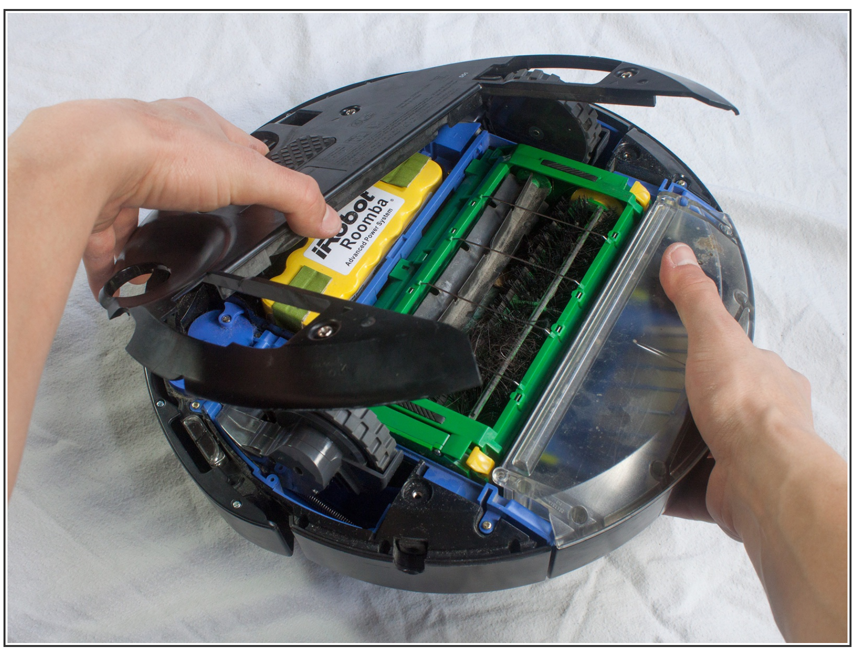
Step 5





- Using a Phillips #2 screwdriver, remove the captive screws that hold the bottom plate in place.

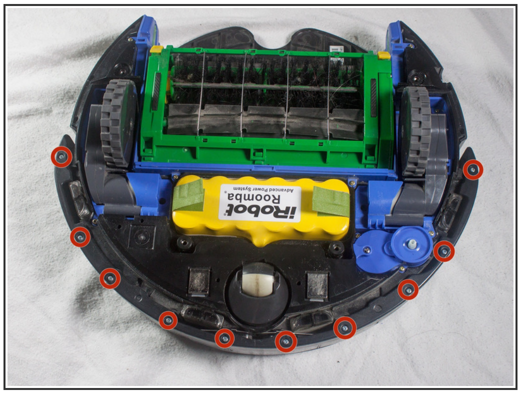
Step 6

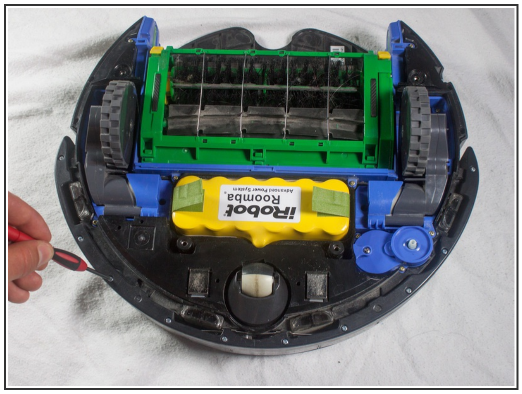


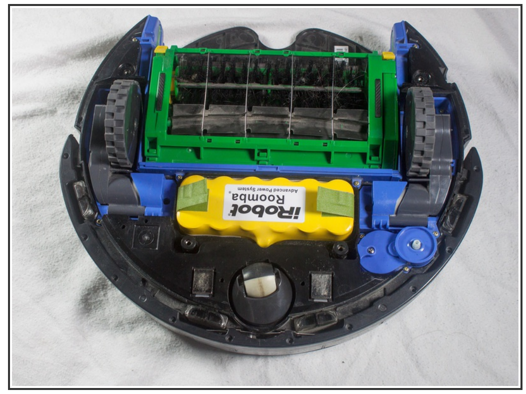
- Carefully lift the bottom plate.

⚠ The battery is only secured in place by the bottom plate, and may fall out once the bottom plate is removed.

Step 7 — Bumper

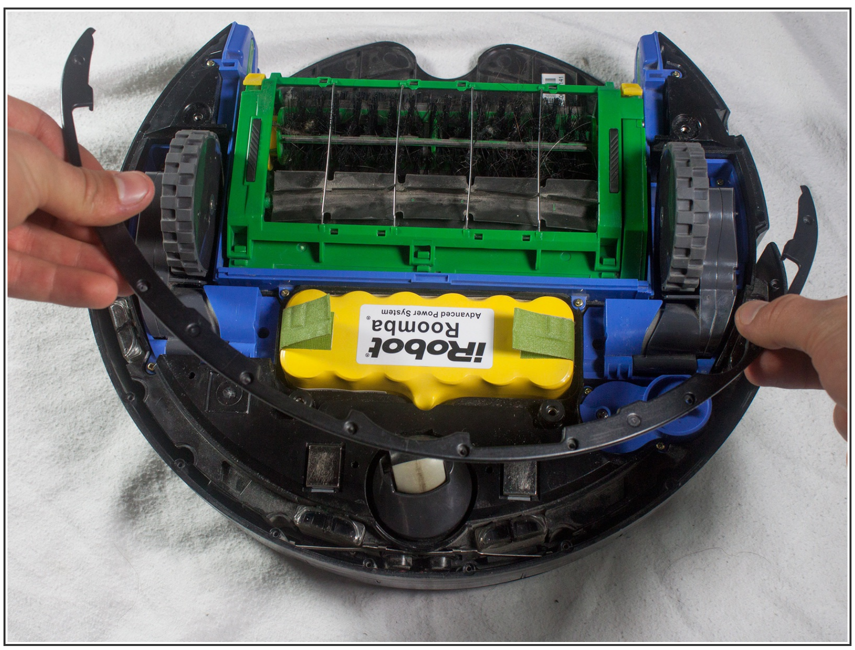






- With a Phillips #1 screwdriver, remove the ten 12mm screws located along the bottom of the bumper.

Step 8



- Lift the bottom cover and set it to the side.

Step 9

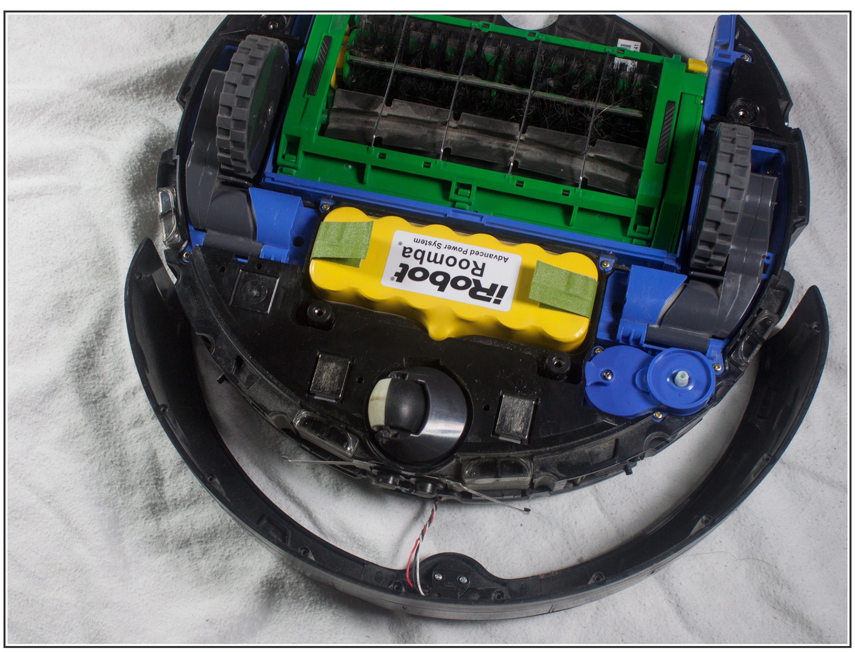




- Flip the Roomba over, grasp the bumper, and gently lift to remove.

⚠ The battery is not secured in place once the bottom plate has been removed, and may fall out when the Roomba is turned right-side up.

Step 10 — Bumper Sensor



- Flip the Roomba so that the bottom is facing you.

Step 11





- Remove the two 5mm screws located near the center of the bumper using a Phillips #1 screwdriver.

Step 12



- Pull gently on the bottom of the sensor to remove.

Step 13







- Flip the bumper over and lift the sensor from its compartment.
- You are now free to replace the bumper sensor.

To reassemble your device, follow these instructions in reverse order.

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